

Notice of Allowability

Application No.

10/068,957

Examiner

Kevin R Kruer

Applicant(s)

ONO ET AL.

Art Unit

1773

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed April 22, 2004.
2. ☒ The allowed claim(s) is/are 1,3,5,7 and 10-13.
3. ☒ The drawings filed on 11 February 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings filed February 11, 2002 are acceptable.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:.

Claims 1, 3, 5, 7, and 10-13 are allowed.

Claim 1 requires that the position and configuration of the resists applied on the reverse side of the phenolic resin impregnated paper base match with those of the resists applied on the face side of the phenolic resin impregnated paper base. Machida in view of Nagashima is the closest prior art, but neither teaches nor renders obvious a laminate wherein the position and configuration of the resist applied on the reverse side of the phenolic resin impregnated paper base should match with those of the resists applied on the face side of said base. To the contrary, Machida teaches that the resists should not be applied to the face side of said base at land portions that are to be soldered (col 1, lines 31+). Machida teaches that the side of the base opposite the land portion has soldered applied thereto (see Figure 1). Thus, the "position and configuration" of the resists do not match. Furthermore, the prior art as a whole does not teach or motivate one of ordinary skill in the art to make a single-sided copper-clad laminate wherein the position and configuration of the resists applied on the reverse

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side of the phenolic resin impregnated paper base match with those of the resists applied on the face side of the phenolic resin impregnated paper base.

Claim 10 requires that the resists applied on the reverse side of the phenolic resin impregnated paper base be applied with a checkered pattern. Machida in view of Nagashima is the closest prior art. Specifically, Machida teaches that the resists may be applied to "cover locally" (col 3, lines 60+) but neither teaches nor renders obvious a laminate wherein the resist applied on the reverse side of the phenolic resin impregnated paper base should be applied with a checkered pattern. Furthermore, the prior art as a whole does not teach or motivate one of ordinary skill in the art to make a single-sided copper-clad laminate wherein the resists applied on the reverse side of the phenolic resin impregnated paper base is applied with a checkered pattern.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin R Kruer whose telephone number is 571-272-1510. The examiner can normally be reached on Monday-Friday, from 8:00a.m. to 4:00p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau can be reached on 571-272-1516. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

X-RK

Kevin R. Kruer
Patent Examiner-Art Unit 1773